

BUB/CTE/2014-15

1. TESTING OF FINE AGGREGATES :

Date: 28-11-2014

Sub: Testing of Fine Aggregates.

{Project*: Improvements to Roads, drains and Covering Slab from Arch to Krishnappa Building in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub-Division}

Ref. : Letter No. Testing/BUB/2014-15, dated 24-11-2014

Sample supplied to lab by : Assistant Executive Engineer,
Vidyaranyapura Sub Division,
BBMP, Bangalore

Name of the Contractor/Agency*: M/s. KRIDL.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002)			Remarks
		Percentage Passing			
		Zone-I	Zone-II	Zone -III	
04.75	97.20	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	86.30	60-95	75-100	85-100	
01.18	72.00	30-70	55-90	75-100	
600. mic	49.00	15-34	35-59	60-79	
300.mic	18.30	5-20	8-30	12-40	
150.mic	2.80	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Silt Content	001	1.45%	Not more than 8%
2.	Specific Gravity	----	2.52	-----

*As Furnished by Client.

The Results relate only to the items tested.

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BUB/CTE/2014-15

1. TESTING OF COARSE AGGREGATES (40 mm):

Date: 28-11-2014

Sub: Testing of Coarse Aggregates.

{Project*: Improvements to Roads, drains and Covering Slab from Arch to Krishnappa Building
in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub-Division}

Ref. : Letter No. Testing/BUB/2014-15, dated 24-11-2014

Sample supplied to lab by : Assistant Executive Engineer,
Vidyaranyapura Sub Division,
BBMP, Bangalore

Name of the Contractor/Agency*: M/s. KRIDL.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing 40 mm Sample	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
		Single size	Graded
40mm	96.70	85-100	95 - 100
20mm	66.00	0 -20	30- 70
10mm	22.10	0 -5	10- 35
4.75mm	Nil	-----	0 - 5

TABLE 1.2 :

SL No	Test conducted	Sample No.	Results	Requirements as per IS:383-1970 & Test Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	As above	15.20 %	Not to exceed 25 %
2.	Crushing value	-----,,----	26.70%	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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BUB/CTE/2014-15

1. TEST REPORT ON CEMENT:

Date: 03-12-2014

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Improvements to Roads, drains and Covering Slab from Arch to Krishnappa Building
in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub-Division}

Ref. : Letter No. Testing/BUB/2014-15, dated 24-11-2014

Sample supplied to lab by : Assistant Executive Engineer,
Vidyaranyapura Sub Division,
BBMP, Bangalore

Name of the Contractor/Agency*: M/s. KRIDL.

PHYSICAL TESTS ON CEMENT

Brand* : Birla
Grade * : 53
Type * : OPC
Date : 25-11-2014 to 02-12-2014

SL No	Name of Test	Results	Requirements as per
		Cement Sample	IS 12269-1987
1	Initial setting time	145min	Shall not be less than 30 min
2	Final setting time	250min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.70 %	Not to exceed 10.0%
4	Soundness test (by Le-Chatelier's method)	1.60 mm	Shall not be more than 10 mm
5	Compressive strength		
	a) 3 days (average of three results)	28.90 N/ Sq mm	Shall not be less than 27 N/Sqmm
	b) 7 days (average of three results)	40.20N/Sq mm	Shall not be less than 37N/Sqmm

*As Furnished by Client.

The Results relate only to the items tested.

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BUB/CTE/2014-15

Date: 28-11-2014

1. TEST REPORT ON REINFORCEMENT STEEL :

Sub: Testing of Reinforcement Steel of diameter 10mm.

{Project*: Improvements to Roads, drains and Covering Slab from Arch to Krishnappa Building
in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub-Division}

Ref. : Letter No. Testing/BUB/2014-15, dated 24-11-2014

Sample supplied to lab by : Assistant Executive Engineer,
Vidyaranyapura Sub Division,
BBMP, Bangalore

Name of the Contractor/Agency*: M/s. KRIDL.

TABLE - 1

SL No	Details	For 10mm	
		Test Results	Min Req as per IS 1786-2008
01	Observed diameter of bar	10.0mm	10.0mm
02	Observed Wt/m Length Kg/m	0.620	0.567
03	Proof stress/Yield stress, f_y , N/mm²	556.0	500.0
04	Bend/ Re bend Test	Ok	---
05	Percentage of Elongation, %	21.30	12.00
06	Ultimate Tensile Strength N/mm²	630.0	545.0

*As furnished by Client.

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BUB/CTE/2014-15

DATE: 10-01-2015

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (28 days Compressive Strength)

{Project*: Improvements to Roads, drains and Covering Slab from Arch to Krishnappa Building
in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub-Division}

Ref. : Letter No. Testing/BUB/2014-15, dated 09-01-2015

Sample supplied to lab by : Assistant Executive Engineer,
Vidyaranyapura Sub Division,
BBMP, Bangalore

Name of the Contractor/Agency*: M/s. KRIDL.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₂₀

TABLE 1.1 :

Sl No	Location/ Identification *	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	12-12-14	09-01-15	28	22500	515	22.88	22.88
	002	"	"	"	"	510	22.66	
	003	"	"	"	"	520	23.11	

*As Furnished by Client.

The Results relate only to the items tested.

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